PATENT COOPERATION TREATY

PCT/EP2005/001802

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NOTIFICATION OF TRANSMITTAL
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OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER I)
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis 3(c) and 72.2)

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IMPORTANT NOTIFICATION

08 February 2007 (08.02.2007)
Applicant's or agent's file reference

2004DE106

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International application No. PCT/EP2005/001802

International filing date (daymonth/sear) 22 February 2005 (22.02.2005)

Applicant

CLARIANT PRODUKTE (DEUTSCHLAND) GMBH et al

1. '1	ransmittal	of the	translation	10	the B	pplicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary repo	ort or
patentability (Chapter 1).	

The International Bureau transmits herewith a copy of the English translation of the international preluminary report on patentability (Chapter II).

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Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

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TRANSLATION

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	unt's or agent's file reference ADEI 06	FOR FURTHER	ACTION	See Form PCT//PEA/4)6	
International application No International filing d		tate (dar/month/sear)	Priority date (dat/month/year)		
PCT/EP2005/001802 22.02.200				03.03.2004	
International Patent Clussification (IPC) or national classification and IPC CO9B67/22					
Applica CLA	RIANT PRODUK	TE (DEUTSCHLAND) GMBH		
ı	This report is the interna under Article 35 and trans	nonal preliminary examination remitted to the applicant according	eport, established by that I to Acticle 36.	international Preliminary Examining Authority	
2.	This REPORT consists of	a total of	sheets, including	g this cover sheet	
3	This report is also accomp	anied by ANNEXES, comprising	:		
	a (sent to the ap	plicant and to the International B	irreau) a total of	sheets, as follows:	
	m abcets of	the description, claims and/or dr intaining rectifications audiorized	awings which lave been a	mended and are the basis for this report aud/or le 70 16 and Section 607 of the Administrative	
	sheets which supersede earlier sheets, but which this Authority considers contain so amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No 1 and the Supplemental Rox.				
	b (sent to the lie	ernational Bureau only) a total of	(indicate type and numbe	r of electronic carrier(s))	
		.,			
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4	This report contains indic	ations relating to the following ite	ns.		
	Box No 1	Basis of the report			
	Box No II	Priority			
	Dox No III	Non-establishment of opinion with	h regard to novelty, invest	ive step and industrial applicability	
	Box No IV	Luck of unity of invention			
	Box No V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement				
	Hos Na VI Certain documents cited				
	Box No. VII Cortain defects in the international application				
Box No VIII Certain observations on the international application					
Date of	submission of the demand		Date of completion of the	ίε Γέγκι'!	
Name u	nd mailing address of the IF	EA/EP	Authorized offices		
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International application No PCT/EP2005/001802

Bo	x Nu.		Basis of the report		
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			eport is based on translations from the original langua is the language of a translation faculated for the purp		*
			international search (Rule 12.3 and 23.1(b))		
			publication of the international application (Rule 12.4	ı	
			reconstituted preliminary examination (Rule 55.2 and/	or 55 3)	
2	rece	iving Q report): the int	to the elements of the international application, this flice in response to an invation under Article 14 are emailional application as originally filed/formshed acciption:	report is based on (<i>replacement absets</i> e referred to in this report as * origina	which have been furnished to the dix filed and are not annexed to
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3		The so	nendments have resulted in the cancellation of.		
			he description, pages		
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ન.		This re they ha	eport has been established as if (some of) the amend are been considered to go beyond the disclosure as fit	ments annexed to this report and listed ed. as indicated in the Supplemental Bo	below had not been made, since ox (Rule 70.2(c))
			he description, pages	- 4F6.	
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International application No	
PCT/EP2005/00180	ż

Box No. V Reasoned statement under a citations and explanations s		nt under Ar malians su	ericle 35(2) with regard to novelty, inventive step or Industrial applicability; apporting such statement			y:
1 Statement						
Novelty	(N)	Chima	78			YES
		Claims				NO
laventive	e step (IS)	Claims	1-8			YES
		Chiuns				NO
ladustris	d applicability (lA)	Clarins	1-8			\TES
		Claims				00

- 2 Citations and explanations (Rule 70 7)
 - V. Reference is made to the following documents:
 - D1: EP-A-0 321 919
 - D2: US-A-6 284 432
 - D3: US-A-4 451 398
 - D4: EP-A-0 504 923
 - D5: Derwent World Patent Index, access number: 1997-381405 & JP-A-9 165 528
 - V.1. Claims 1-8 are novel over the searched prior art within the meaning of PCT Article 33(2).
 - V.2. Claims 1-8 appear to involve an inventive step within the meaning of PCT Article 33(3).
 - V.2.1. The problem addressed by the present application can be considered that of 'finding novel technical uses for the pigment preparation defined in claim l'.
 - Claim 1 constitutes a solution to this problem.
 - V.2.2. The pigment compositions made in examples 14-21 of D1 come within the pigment preparation defined in the present claim 1.
 - There is a general reference in D1 to toners: "Depending on the intended use, it will prove to be advantageous to

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

use the pigments of the present invention as toners or in the form of formulations or dispersions. Based on the macromolecular organic material to be pigmented, the compounds of the stated formula I are used in an amount of preferably 0.1% to 10% by weight."

The other specific fields of application which are mentioned in the present claim 1 are not mentioned in D1. D1 does not specify the use sector of the pigments with regard to the proposed toners. With regard to use in the sector of electrophotography, specific requirements are expected to be met by the mixture of pigment and pigment derivative. A person skilled in the art would have to undertake appropriate further tests on the pigment formulations disclosed in D1 to determine their utility as toners for electrophotography, and thus would have to be inventive. An inventive step can therefore be acknowledged for the present claim 1 over D1.

V.2.3. D4 likewise discloses P.V.23 formulations incorporating corresponding derivatives (see for example formula III on page 5 of D4); again, toners are mentioned as a possible use: "Depending on the intended use, it will prove to be advantageous to use the pigment preparations obtained according to the present invention as toners or in the form of formulations or dispersions" (D4 page 6 lines 34, 35). D4 likewise does not specify a use sector of the pigments with regard to the proposed toners.

The subject matter of the present claims 1-8 can thus be acknowledged to involve an inventive step over D4 for the same reasons as mentioned in V.2.2.

V.2.4. D2 discloses various pigments which are surfacemodified by introduction of SO3H or sulphonamide groups;

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement

thus modified pigments provide stable dispersions and a reduced tendency to floc (see D2 column 1). Example 2 combines Figment Violet 23 with a pigment derivative having the same basic chemical structure, to produce a colour filter.

The difference between D2 and the present claim 1 is the chemical structure of the attached side groups. D2 likewise describes the production of colour filters which contain or are coated with the pigment compositions described. To arrive at the subject matter of claim 1 without an inventive step, a person skilled in the art would have to find pointers in DZ for modifying the side groups described therein (SO3H/-SO2NRLX) in the direction of the chemical group (II) of the main claim. Such a pointer cannot be found in D2, and therefore claim 1 is deemed to be inventive compared with D2. V.2.5. Example 75 of D3 discloses a pigment combination of F.V.23 with a 4-methylimidazole-P.V.23 derivative; however, the D3 formulations are exclusively used for paper coloration, so that there is nothing in D3 to point a person skilled in the art towards a use within the meaning of the present claim 1.

Claims 1-8 are therefore acknowledged to involve an inventive step compared with D3.

V.2.6. D5 describes a pigment-conditioning process evidently without addition of pigment derivatives which lead to advantageous pigment preparations in, inter alia, electrophotographic toners, colour filters or else ink jet inks. Carbazole Dioxazine Violet is mentioned, a trade name for Pigment Violet 23.

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ox No. VII	Certain defects in the intermational application

The following detects in the form or contents of the infernational application have been noted:

VII. Contrary to PCT Rule 5.1(a)(ii), the description does not cite documents D3 and D5 or indicate the relevant prior art disclosed therein.